



TUVALU SHIP REGISTRY

Singapore Operations Office:

10 Anson Road #25-16, International Plaza, Singapore 079903

Tel: (65) 6224 2345 Fax: (65) 6227 2345

Email: info@tvship.com Website: www.tvship.com

MARINE CIRCULAR

MC-1/2013/1

07/2026

FOR: Ship Owners, Ship Managers, Ship Operators, Ship Masters, Ship Officers, Classification Societies

SUBJECT: ENERGY EFFICIENCY AND CARBON INTENSITY REQUIREMENTS FOR SHIPS

DEFINITIONS:

The following abbreviations stand for:

- "CII" – Carbon Intensity Indicator
- "DCS" – IMO Fuel Oil Consumption Data Collection System
- "EEDI" – Energy Efficiency Design Index
- "EEXI" – Energy Efficiency Existing Ship Index
- "GISIS" – Global Integrated Shipping Information System
- "GT" – Gross Tonnage in accordance with ITC 69
- "IEEC" – International Energy Efficiency Certificate
- "IMO" – International Maritime Organization
- "ITC 69" – International Convention on Tonnage Measurement of Ships, 1969
- "MARPOL Annex VI" – Annex VI to the International Convention for the Prevention of Pollution from Ships, as amended
- "MEPC" – Marine Environment Protection Committee
- "RO" – Recognized Organization as defined by IMO Resolution MSC.349(92) and MEPC.237(65)
- "SEEMP" – Ship Energy Efficiency Management Plan
- "SMS" – Safety Management System

The term "Administration" shall mean the Tuvalu Ship Registry.

PURPOSE:

The purpose of this Marine Circular is to provide ship owners, operators and managers guidance with regard to the energy efficiency and carbon intensity requirements contained in Chapter 4 of MARPOL Annex VI, including the requirements for EEDI, EEXI, SEEMP, DCS reporting, CII ratings and certification.

REFERENCES:

- (a) MARPOL Annex VI, as amended;
- (b) Resolution MEPC.203(62), Amendments to MARPOL Annex VI introducing Chapter 4 – Regulations on Energy Efficiency for Ships;
- (c) Resolution MEPC.335(76), Amendments to MARPOL Annex VI relating to EEXI and CII;
- (d) Resolution MEPC.338(76), 2021 Guidelines on Operational Carbon Intensity Reduction Factors Relative to Reference Lines (G3), as amended by Resolution MEPC.400(83);
- (e) Resolution MEPC.347(78), 2022 Guidelines on Survey and Certification of the Attained EEXI;
- (f) Resolution MEPC.364(79), 2022 Guidelines on Operational Carbon Intensity Indicators and Calculation Methods (CII Guidelines);
- (g) Resolution MEPC.365(79), 2022 Guidelines on the Reference Lines for Use with Operational Carbon Intensity Indicators;
- (h) Resolution MEPC.366(79), 2022 Guidelines on Operational Carbon Intensity Rating of Ships; and
- (i) Resolution MEPC.395(82), 2024 Guidelines for the Development of a Ship Energy Efficiency Management Plan (SEEMP), as amended by Resolution MEPC.401(83).

APPLICATION:

This Circular applies to all Tuvalu flagged ships of 400 GT and above to which MARPOL Annex VI applies.

CONTENTS:

1. Introduction

1.1. Chapter 4 of MARPOL Annex VI establishes mandatory measures to improve the energy efficiency and reduce greenhouse gas emissions from ships.

1.2. These measures include:

- 1.2.1. Energy Efficiency Design Index (EEDI);
- 1.2.2. Energy Efficiency Existing Ship Index (EEXI);
- 1.2.3. Ship Energy Efficiency Management Plan (SEEMP);
- 1.2.4. Fuel Oil Consumption Data Collection System (DCS); and
- 1.2.5. Carbon Intensity Indicator (CII).

1.3. Ships subject to Chapter 4 shall comply with the applicable requirements and maintain the relevant records and certificates onboard.

2. International Energy Efficiency Certificate (IEEC)

- 2.1. All ships of 400 GT and above to which Chapter 4 applies shall be issued with an International Energy Efficiency Certificate (IEEC) following satisfactory completion of the required surveys.
- 2.2. The IEEC shall remain valid in accordance with MARPOL Annex VI.
- 2.3. The IEEC shall be available onboard for examination by Port State Control Officers and other authorized officials.

3. Energy Efficiency Design Index (EEDI)

- 3.1. New ships subject to Regulations 20 and 21 of MARPOL Annex VI shall comply with the applicable attained and required EEDI requirements.
- 3.2. The attained EEDI shall be calculated and verified in accordance with the applicable IMO Guidelines.
- 3.3. Compliance with the EEDI requirements shall be verified by the vessel's RO acting on behalf of the Administration.

4. Energy Efficiency Existing Ship Index (EEXI)

- 4.1. Existing ships to which Regulation 23 applies shall comply with the attained EEXI requirements.
- 4.2. Compliance may require technical or operational modifications including, but not limited to:
 - 4.2.1. Engine Power Limitation (EPL);
 - 4.2.2. Shaft Power Limitation (ShaPoLi);
 - 4.2.3. Propulsion efficiency improvements; or
 - 4.2.4. Other equivalent arrangements accepted by the Administration.
- 4.3. The attained EEXI shall be verified by the vessel's RO and recorded as required by MARPOL Annex VI.

5. Ship Energy Efficiency Management Plan (SEEMP)

- 5.1. Every ship of 400 GT and above shall keep onboard a ship-specific SEEMP.
- 5.2. The SEEMP may form part of the vessel's SMS or be maintained as a separate document.
- 5.3. The SEEMP shall be developed taking into account the latest IMO Guidelines.
- 5.4. Ships of 5,000 GT and above shall maintain a SEEMP containing the elements required by MARPOL Annex VI, including where applicable a plan for achieving the required annual operational CII.

6. IMO Data Collection System (DCS)

- 6.1. Ships of 5,000 GT and above shall collect fuel oil consumption data in accordance with Regulation 27 of MARPOL Annex VI.
- 6.2. The collected data shall be submitted annually to the vessel's RO.
- 6.3. Following successful verification of the reported data, a Statement of Compliance shall be issued and retained onboard.
- 6.4. The reported data shall be submitted to the IMO GISIS Ship Fuel Oil Consumption Database via electronic communication by the RO, using a standardized format not later than one month after issuing the Statements of Compliance.

7. Carbon Intensity Indicator (CII)

- 7.1. Ships of 5,000 GT and above shall determine and report their annual operational CII in accordance with Regulation 28 of MARPOL Annex VI.
- 7.2. Each ship shall be assigned an annual rating ranging from A to E.
- 7.3. Ships receiving:
 - 7.3.1. a D rating for three consecutive years; or
 - 7.3.2. an E rating for any single year,shall develop a Corrective Action Plan and incorporate such plan into the SEEMP.
- 7.4. The Corrective Action Plan shall identify the measures intended to achieve the required operational carbon intensity rating.

8. Surveys and Verification

8.1. Ships shall be subject to surveys and verifications required under MARPOL Annex VI.

8.2. The RO shall conduct such surveys and verifications on behalf of the Administration.

8.3. Shipowners and operators shall provide all necessary documentation and records required to demonstrate compliance.

9. Port State Control

9.1. Ships may be subject to Port State Control inspections to verify compliance with MARPOL Annex VI Chapter 4.

9.2. Deficiencies relating to certification, SEEMP implementation, DCS reporting, EEXI compliance or CII requirements may result in Port State Control actions, including detention.

Yours sincerely,

Deputy Registrar

Tuvalu Ship Registry